

# Notice of Allowability

Application No.

10/500,700

Examiner

Chih-Cheng Glen Kao

Applicant(s)

DOMOTO ET AL.

Art Unit

2882

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 1/22/07 and 11/27/06.
2. ☒ The allowed claim(s) is/are 1 and 4-10.
3. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☒ All    b) ☐ Some\*    c) ☐ None    of the:
    1. ☐ Certified copies of the priority documents have been received.
    2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. ☒ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  
**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
  5. ☐ CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.
    - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached
      - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
    - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

## Attachment(s)

- |  |  |
|--|--|
| 1. <input type="checkbox"/> Notice of References Cited (PTO-892)   | 5. <input type="checkbox"/> Notice of Informal Patent Application                      |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                       | 6. <input type="checkbox"/> Interview Summary (PTO-413),<br>Paper No./Mail Date _____. |
| 3. <input type="checkbox"/> Information Disclosure Statements (PTO/SB/08),<br>Paper No./Mail Date _____    | 7. <input checked="" type="checkbox"/> Examiner's Amendment/Comment                    |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit<br>of Biological Material | 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance   |
|  | 9. <input type="checkbox"/> Other _____.   |

### EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Paul Teng on March 1, 2007.

2. The application has been amended as follows:

Replace the entire title with --X-RAY APPARATUS WITH ANODE ROTATION  
NUMBER DETECTING MEANS--.

In claim 1, line 2, insert --in the X-ray tube device-- after "rotating an anode".

In claim 1, lines 12-13, replace "an event that" with --when--.

In claim 1, line 13, insert --when-- after "by judging".

In claim 1, line 14, replace "is reached to" with --reaches--.

In claim 4, lines 2-3, delete "at least one current detecting means for detecting current  
flowing through the stator coil;".

In claim 4, lines 4-5, replace "an event that" with --when--.

In claim 4, line 5, in the phrase "an present stator coil current"; replace "an" with --a--.

In claim 4, line 5, in the phrase "the predetermined stator coil current"; replacing "the"  
with --a--.

In claim 5, line 2, replace "include" with --includes--.

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In claim 5, lines 2-3, delete "at least one current detecting means for detecting current flowing through the stator coil;".

In claim 5, line 7, replace "an event that" with --when--.

In claim 8, line 5, replace "a outputting" with --outputting a--.

### *Reasons for Allowance*

3. Claims 1 and 4-10 are allowed. The following is an examiner's statement of reasons for allowance.

Regarding claim 1, prior art fails to disclose or fairly suggest an X-ray tube device, including wherein an anode rotation number detecting means includes impedance calculating means for calculating impedance of an anode rotation mechanism using an output of a voltage detecting means and a current detecting means, initial impedance storing means for storing an impedance at the start of anode rotation calculated by the impedance calculating means, impedance ratio calculating means for calculating a ratio between the initial impedance and a present impedance calculated by the impedance calculating means, and means for detecting when the rotation number of an anode is a predetermined rotation number by judging when the impedance ratio calculated by the impedance ratio calculating means reaches a predetermined value, in combination with all the limitations in the claim. Claims 4-10 are allowed by virtue of their dependency.

4. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue

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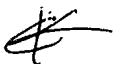
fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

### ***Conclusion***


Any inquiry concerning this communication or earlier communications from the examiner should be directed to Chih-Cheng Glen Kao whose telephone number is (571) 272-2492. The examiner can normally be reached on M - F (9 am to 5 pm).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ed Glick can be reached on (571) 272-2490. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.



gk



**EDWARD J. GLICK**  
SUPERVISORY PATENT EXAMINER